FIG. 1

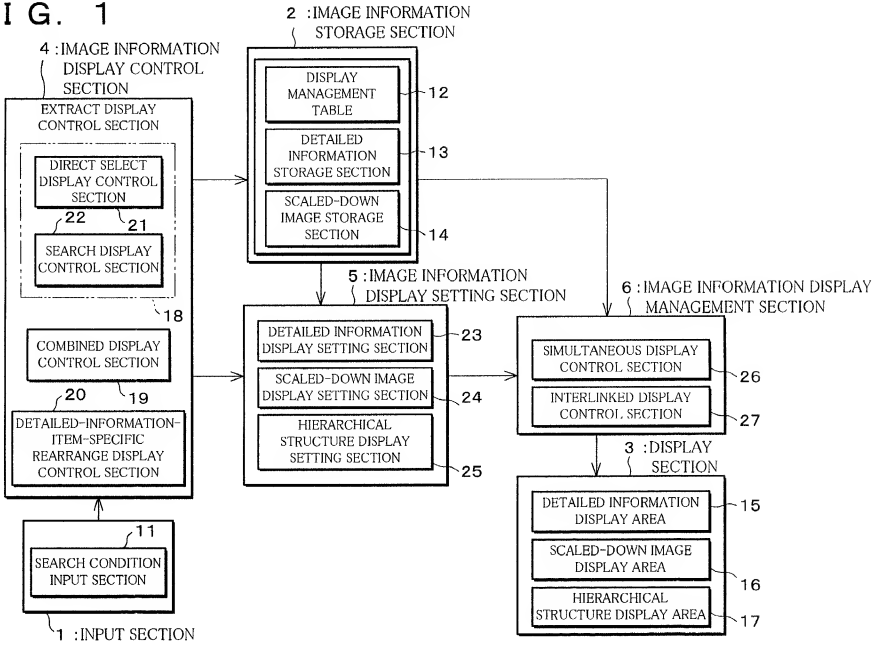

2 :IMAGE INFORMATION STORAGE SECTION
DISPLAY MANAGEMENT TABLE
12
DETAILED INFORMATION STORAGE SECTION
13
SCALED-DOWN IMAGE STORAGE SECTION
14
4 :IMAGE INFORMATION DISPLAY CONTROL SECTION
EXTRACT DISPLAY CONTROL SECTION
DIRECT SELECT DISPLAY CONTROL SECTION
22
21
SEARCH DISPLAY CONTROL SECTION
18
COMBINED DISPLAY CONTROL SECTION
20
19
DETAILED-INFORMATION-ITEM-SPECIFIC REARRANGE DISPLAY CONTROL SECTION
11
SEARCH CONDITION INPUT SECTION
1 :INPUT SECTION
5 :IMAGE INFORMATION DISPLAY SETTING SECTION
DETAILED INFORMATION DISPLAY SETTING SECTION
23
SCALED-DOWN IMAGE DISPLAY SETTING SECTION
24
HIERARCHICAL STRUCTURE DISPLAY SETTING SECTION
25
6 :IMAGE INFORMATION DISPLAY MANAGEMENT SECTION
SIMULTANEOUS DISPLAY CONTROL SECTION
26
INTERLINKED DISPLAY CONTROL SECTION
27
3 :DISPLAY SECTION
DETAILED INFORMATION DISPLAY AREA
15
SCALED-DOWN IMAGE DISPLAY AREA
16
HIERARCHICAL STRUCTURE DISPLAY AREA
17

FIG. 2

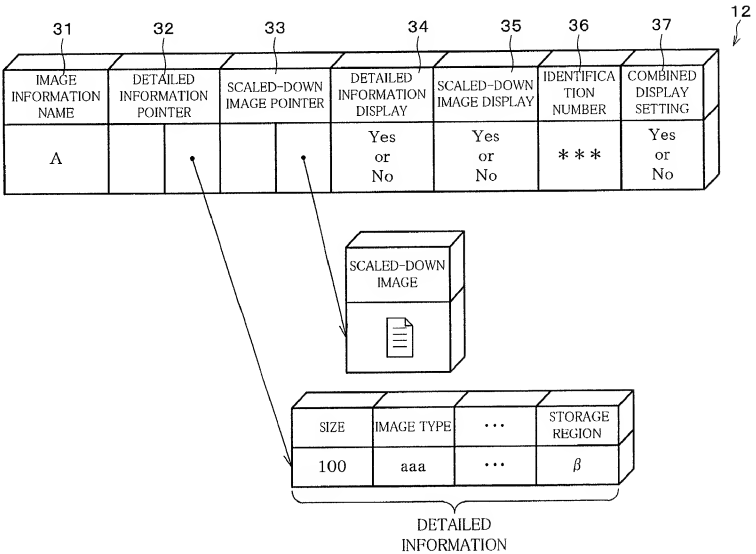

12
31
32
33
34
35
36
37
IMAGE INFORMATION NAME
DETAILED INFORMATION POINTER
SCALED-DOWN IMAGE POINTER
DETAILED INFORMATION DISPLAY
SCALED-DOWN IMAGE DISPLAY
IDENTIFICATION NUMBER
COMBINED DISPLAY SETTING
A
Yes or No
Yes or No
* * *
Yes or No
SCALED-DOWN IMAGE
SIZE
IMAGE TYPE
...
STORAGE REGION
100
aaa
...
β
DETAILED INFORMATION

FIG. 3

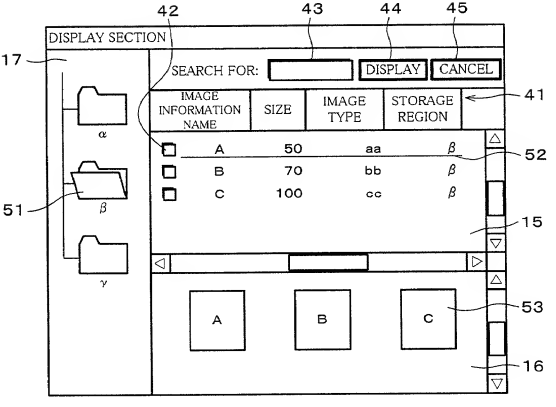

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
DISPLAY
CANCEL
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
41
α
β
γ
51
A 50 aa β
B 70 bb β
C 100 cc β
52
15
A
B
C
53
16

FIG. 4

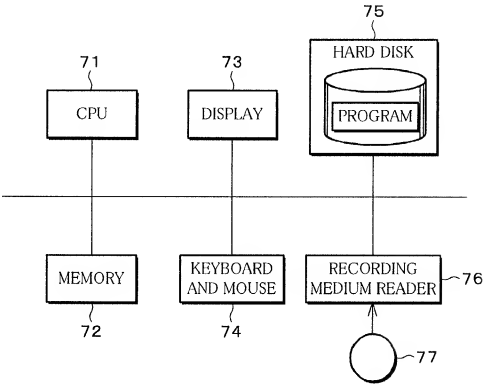

75
HARD DISK
71
CPU
73
DISPLAY
PROGRAM
MEMORY
72
KEYBOARD
AND MOUSE
74
RECORDING
MEDIUM READER
76
77

FIG. 5

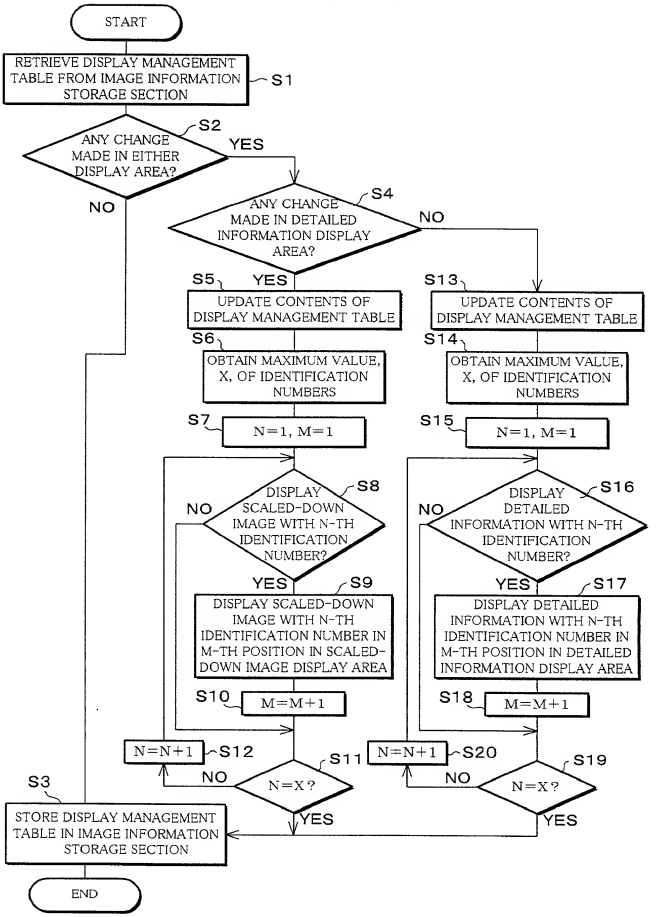

START
RETRIEVE DISPLAY MANAGEMENT TABLE FROM IMAGE INFORMATION STORAGE SECTION
S1
ANY CHANGE MADE IN EITHER DISPLAY AREA?
S2
YES
NO
ANY CHANGE MADE IN DETAILED INFORMATION DISPLAY AREA?
S4
NO
YES
S5
UPDATE CONTENTS OF DISPLAY MANAGEMENT TABLE
S6
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
S7
N=1, M=1
DISPLAY SCALED-DOWN IMAGE WITH N-TH IDENTIFICATION NUMBER?
S8
NO
YES
DISPLAY SCALED-DOWN IMAGE WITH N-TH IDENTIFICATION NUMBER IN M-TH POSITION IN SCALED-DOWN IMAGE DISPLAY AREA
S9
M=M+1
S10
N=N+1
S12
N=X?
S11
NO
YES
S13
UPDATE CONTENTS OF DISPLAY MANAGEMENT TABLE
S14
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
S15
N=1, M=1
DISPLAY DETAILED INFORMATION WITH N-TH IDENTIFICATION NUMBER?
S16
NO
YES
DISPLAY DETAILED INFORMATION WITH N-TH IDENTIFICATION NUMBER IN M-TH POSITION IN DETAILED INFORMATION DISPLAY AREA
S17
M=M+1
S18
N=N+1
S20
N=X?
S19
NO
YES
S3
STORE DISPLAY MANAGEMENT TABLE IN IMAGE INFORMATION STORAGE SECTION
END

FIG. 6(a)

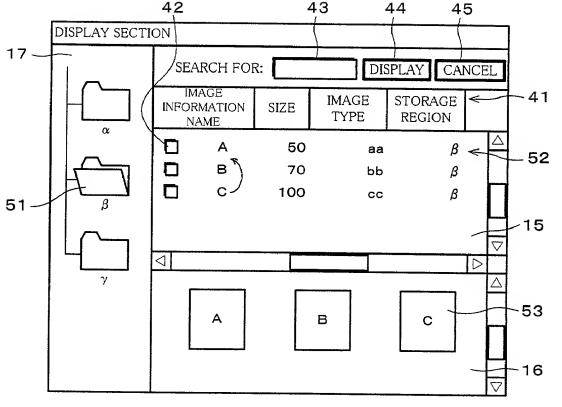

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
DISPLAY
CANCEL
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
41
α
β
γ
51
A 50 aa β
B 70 bb β
C 100 cc β
52
15
A
B
C
53
16

FIG. 6(b)

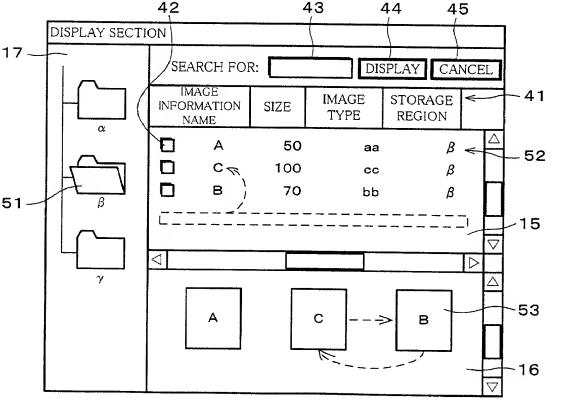

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
DISPLAY
CANCEL
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
41
α
β
γ
51
A 50 aa β
C 100 cc β
B 70 bb β
52
15
A
C
B
53
16

FIG. 7

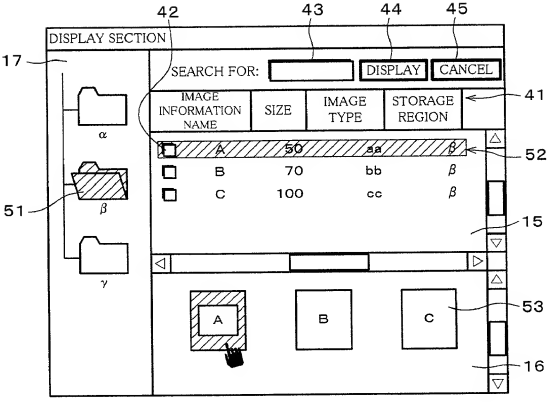

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
DISPLAY
CANCEL
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
41
α
A
50
aa
β
52
51
β
B
70
bb
β
C
100
cc
β
15
γ
A
B
C
53
16

FIG. 8

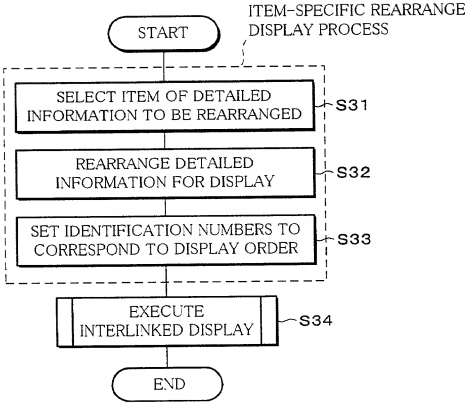

ITEM-SPECIFIC REARRANGE DISPLAY PROCESS
START
SELECT ITEM OF DETAILED INFORMATION TO BE REARRANGED
S31
REARRANGE DETAILED INFORMATION FOR DISPLAY
S32
SET IDENTIFICATION NUMBERS TO CORRESPOND TO DISPLAY ORDER
S33
EXECUTE INTERLINKED DISPLAY
S34
END

FIG. 9(a)

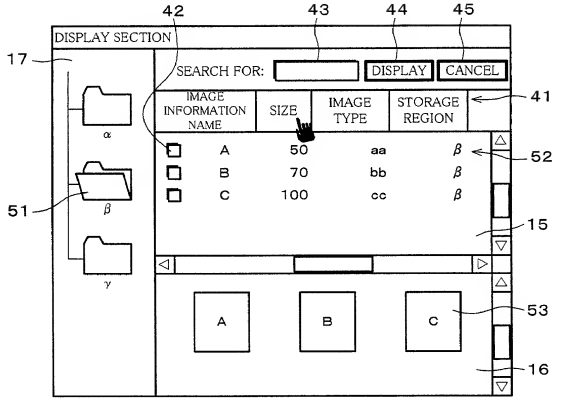

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
DISPLAY
CANCEL
41
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
α
β
γ
A 50 aa β
B 70 bb β
C 100 cc β
52
51
15
A
B
C
53
16

FIG. 9(b)

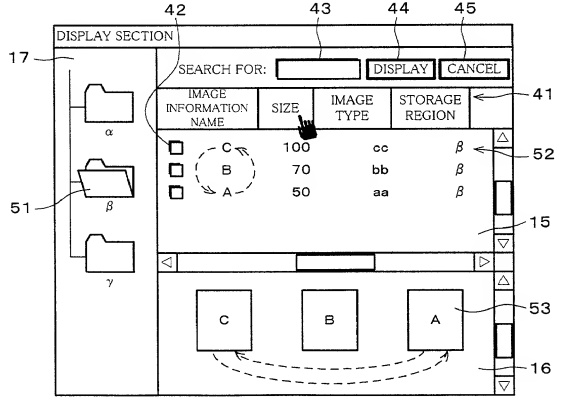

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
DISPLAY
CANCEL
41
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
α
β
γ
C 100 cc β
B 70 bb β
A 50 aa β
52
51
15
C
B
A
53
16

FIG. 10

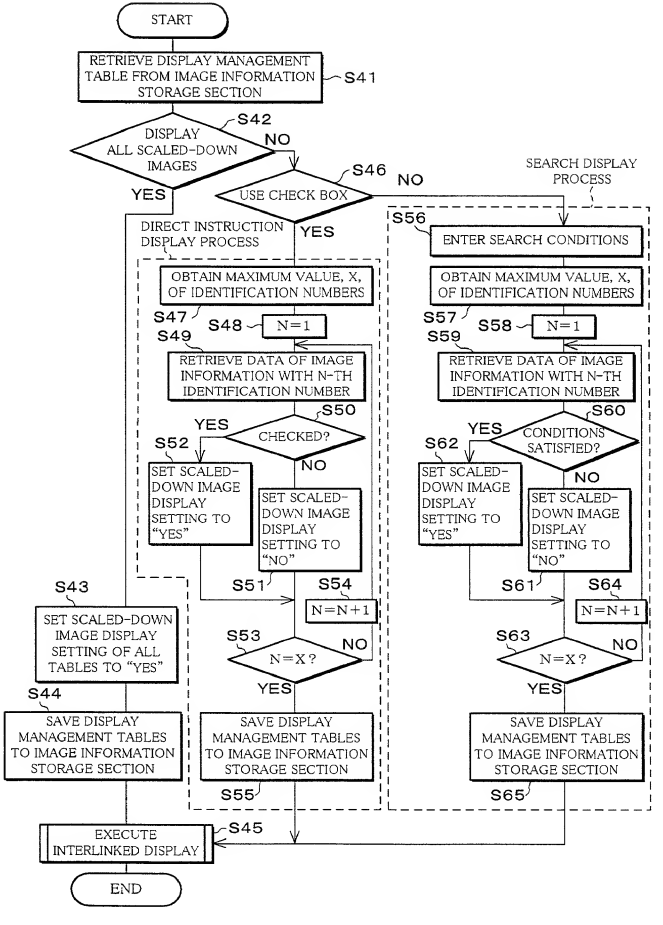

START
RETRIEVE DISPLAY MANAGEMENT TABLE FROM IMAGE INFORMATION STORAGE SECTION
S41
DISPLAY ALL SCALED-DOWN IMAGES
S42
NO
YES
USE CHECK BOX
S46
NO
YES
SEARCH DISPLAY PROCESS
DIRECT INSTRUCTION DISPLAY PROCESS
S56
ENTER SEARCH CONDITIONS
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
S47
S48
N=1
S57
S58
N=1
S49
RETRIEVE DATA OF IMAGE INFORMATION WITH N-TH IDENTIFICATION NUMBER
S59
RETRIEVE DATA OF IMAGE INFORMATION WITH N-TH IDENTIFICATION NUMBER
S50
YES
CHECKED?
NO
S52
SET SCALED-DOWN IMAGE DISPLAY SETTING TO "YES"
SET SCALED-DOWN IMAGE DISPLAY SETTING TO "NO"
S60
YES
CONDITIONS SATISFIED?
NO
S62
SET SCALED-DOWN IMAGE DISPLAY SETTING TO "YES"
SET SCALED-DOWN IMAGE DISPLAY SETTING TO "NO"
S43
SET SCALED-DOWN IMAGE DISPLAY SETTING OF ALL TABLES TO "YES"
S51
S54
N=N+1
S61
S64
N=N+1
S53
N=X?
NO
YES
S63
N=X?
NO
YES
S44
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION
S55
S65
EXECUTE INTERLINKED DISPLAY
S45
END

FIG. 11

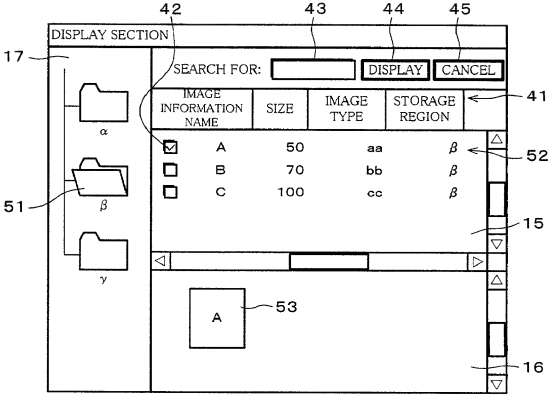

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
DISPLAY
CANCEL
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
41
α
A 50 aa β
B 70 bb β
C 100 cc β
52
51
β
15
γ
A
53
16

FIG. 12

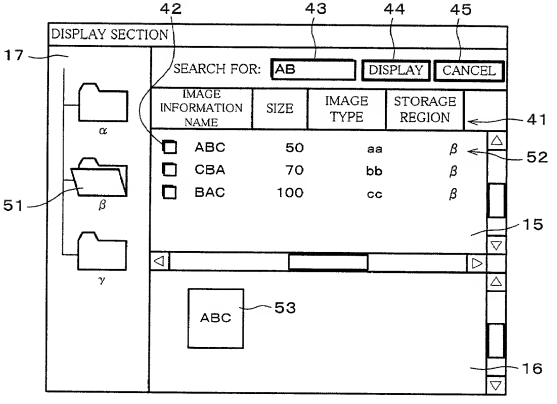

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
AB
DISPLAY
CANCEL
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
41
ABC 50 aa β
CBA 70 bb β
BAC 100 cc β
52
51
α
β
γ
15
ABC
53
16

FIG. 13

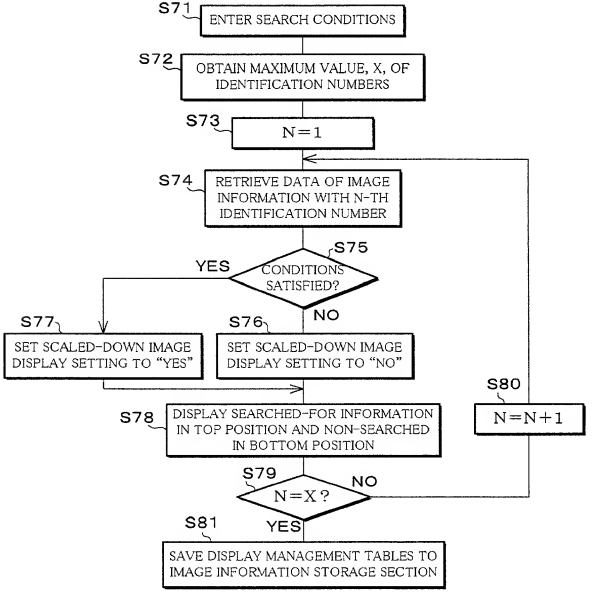

S71
ENTER SEARCH CONDITIONS
S72
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
S73
N=1
S74
RETRIEVE DATA OF IMAGE INFORMATION WITH N-TH IDENTIFICATION NUMBER
S75
CONDITIONS SATISFIED?
YES
NO
S77
SET SCALED-DOWN IMAGE DISPLAY SETTING TO "YES"
S76
SET SCALED-DOWN IMAGE DISPLAY SETTING TO "NO"
S78
DISPLAY SEARCHED-FOR INFORMATION IN TOP POSITION AND NON-SEARCHED IN BOTTOM POSITION
S80
N=N+1
S79
N=X?
NO
YES
S81
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION

FIG. 14(a)

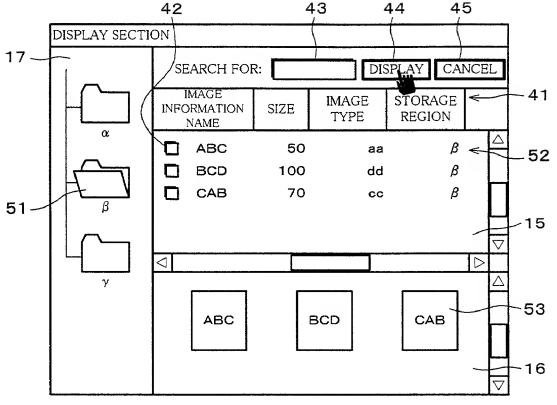


FIG. 14(b)

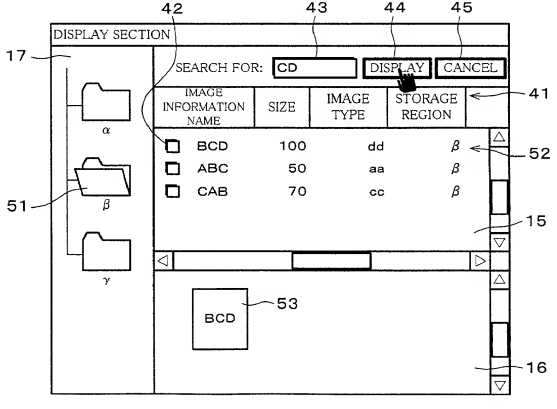


FIG. 15

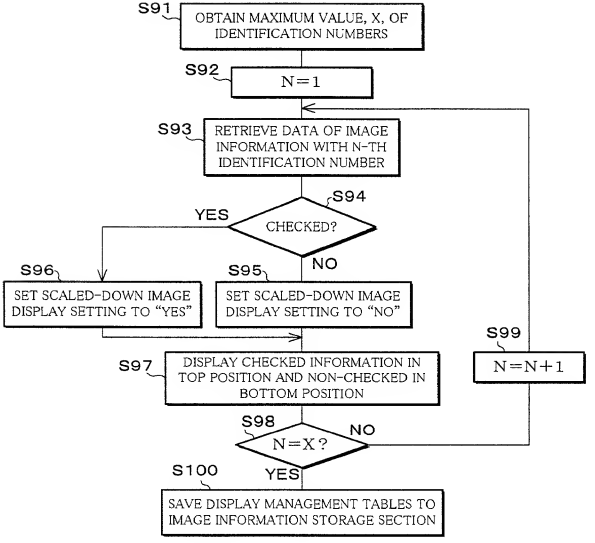

S91
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
S92
N=1
S93
RETRIEVE DATA OF IMAGE INFORMATION WITH N-TH IDENTIFICATION NUMBER
S94
CHECKED?
YES
NO
S96
SET SCALED-DOWN IMAGE DISPLAY SETTING TO "YES"
S95
SET SCALED-DOWN IMAGE DISPLAY SETTING TO "NO"
S99
N=N+1
S97
DISPLAY CHECKED INFORMATION IN TOP POSITION AND NON-CHECKED IN BOTTOM POSITION
S98
N=X?
NO
YES
S100
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION

FIG. 16(a)

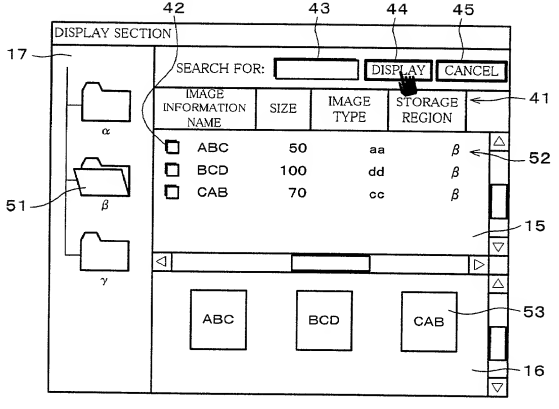


FIG. 16(b)

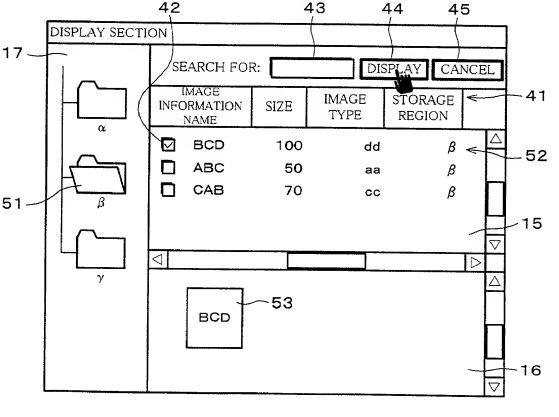


FIG. 17

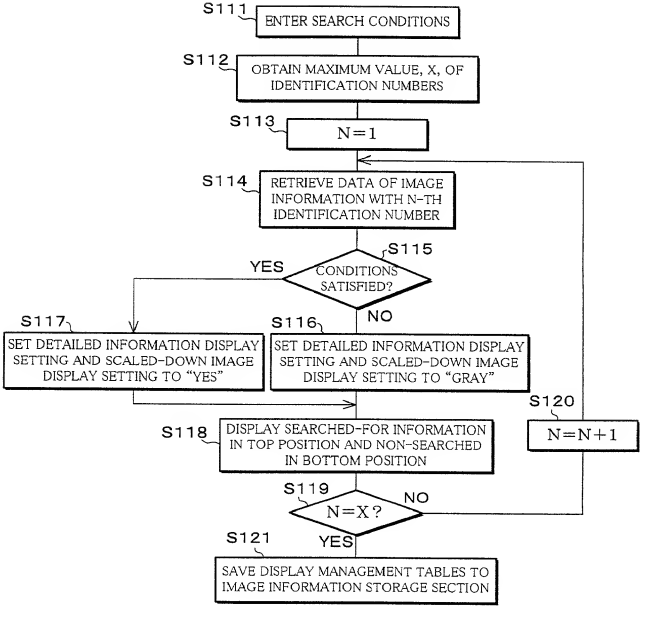

S111
ENTER SEARCH CONDITIONS
S112
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
S113
N=1
S114
RETRIEVE DATA OF IMAGE INFORMATION WITH N-TH IDENTIFICATION NUMBER
S115
CONDITIONS SATISFIED?
YES
NO
S117
SET DETAILED INFORMATION DISPLAY SETTING AND SCALED-DOWN IMAGE DISPLAY SETTING TO "YES"
S116
SET DETAILED INFORMATION DISPLAY SETTING AND SCALED-DOWN IMAGE DISPLAY SETTING TO "GRAY"
S120
N=N+1
S118
DISPLAY SEARCHED-FOR INFORMATION IN TOP POSITION AND NON-SEARCHED IN BOTTOM POSITION
S119
N=X?
NO
YES
S121
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION

FIG. 18

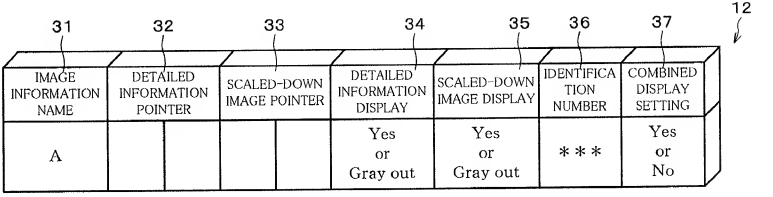

12
31
32
33
34
35
36
37
IMAGE INFORMATION NAME
DETAILED INFORMATION POINTER
SCALED-DOWN IMAGE POINTER
DETAILED INFORMATION DISPLAY
SCALED-DOWN IMAGE DISPLAY
IDENTIFICATION NUMBER
COMBINED DISPLAY SETTING
A
Yes or Gray out
Yes or Gray out
* * *
Yes or No

FIG. 19(a)

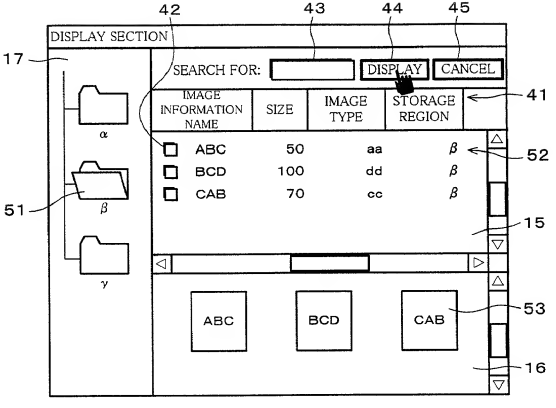


FIG. 19(b)

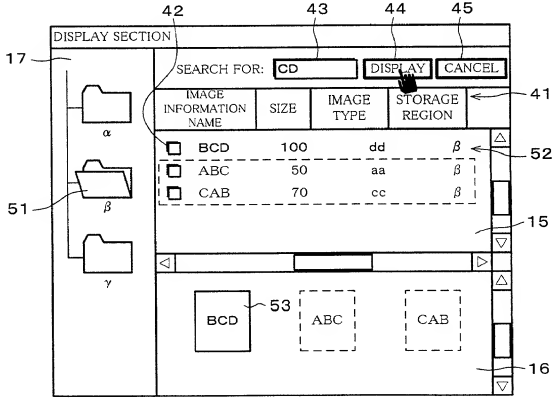


FIG. 20

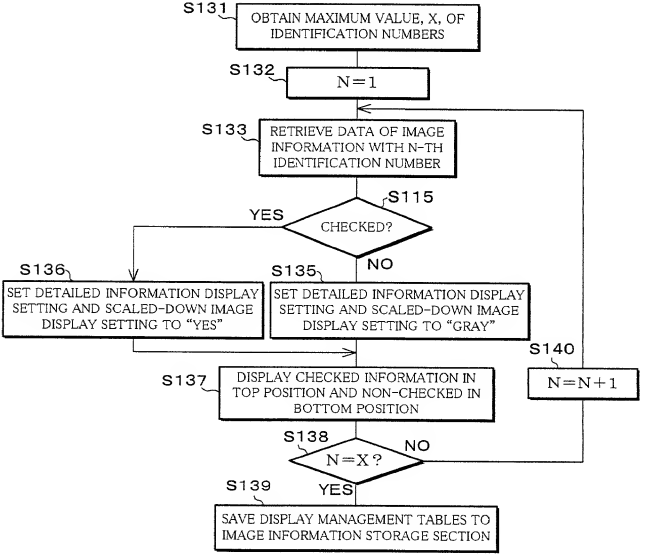

S131
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
S132
N=1
S133
RETRIEVE DATA OF IMAGE INFORMATION WITH N-TH IDENTIFICATION NUMBER
S115
CHECKED?
YES
NO
S136
SET DETAILED INFORMATION DISPLAY SETTING AND SCALED-DOWN IMAGE DISPLAY SETTING TO "YES"
S135
SET DETAILED INFORMATION DISPLAY SETTING AND SCALED-DOWN IMAGE DISPLAY SETTING TO "GRAY"
S140
N=N+1
S137
DISPLAY CHECKED INFORMATION IN TOP POSITION AND NON-CHECKED IN BOTTOM POSITION
S138
N=X?
NO
YES
S139
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION

FIG. 21(a)

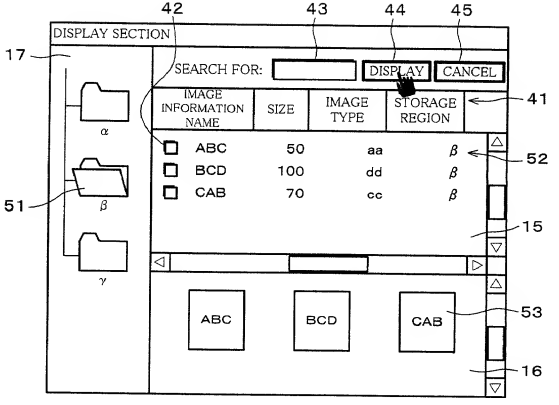


FIG. 21(b)

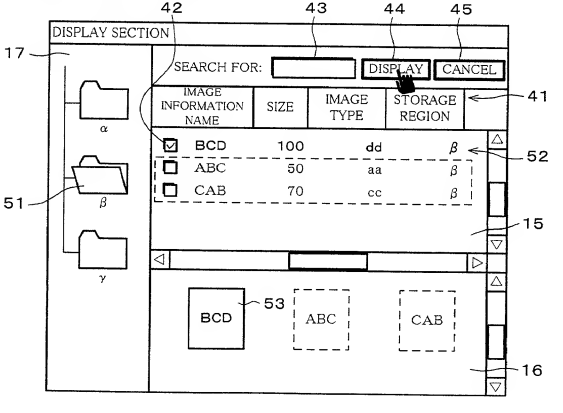


FIG. 22

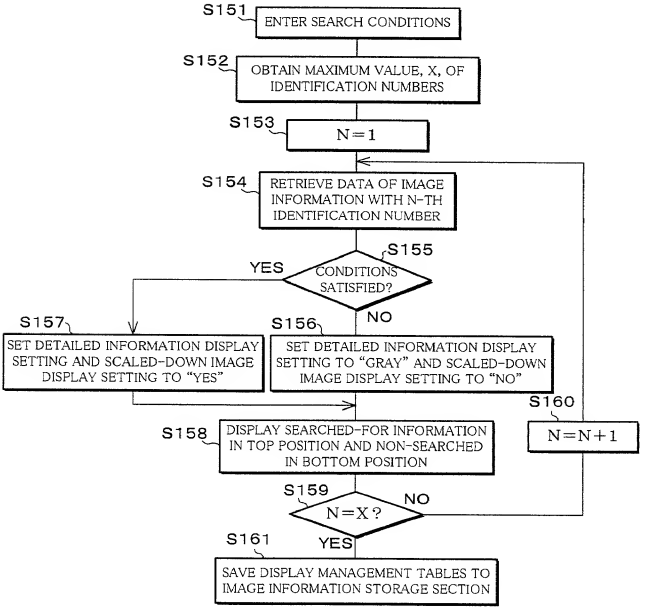

S151
ENTER SEARCH CONDITIONS
S152
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
S153
N=1
S154
RETRIEVE DATA OF IMAGE INFORMATION WITH N-TH IDENTIFICATION NUMBER
S155
CONDITIONS SATISFIED?
YES
NO
S157
SET DETAILED INFORMATION DISPLAY SETTING AND SCALED-DOWN IMAGE DISPLAY SETTING TO "YES"
S156
SET DETAILED INFORMATION DISPLAY SETTING TO "GRAY" AND SCALED-DOWN IMAGE DISPLAY SETTING TO "NO"
S158
DISPLAY SEARCHED-FOR INFORMATION IN TOP POSITION AND NON-SEARCHED IN BOTTOM POSITION
S160
N=N+1
S159
N=X?
NO
YES
S161
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION

FIG. 23

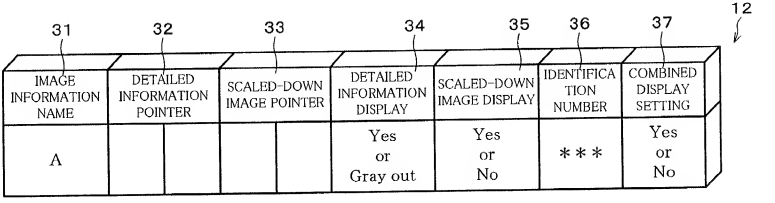

12
31
32
33
34
35
36
37
IMAGE INFORMATION NAME
DETAILED INFORMATION POINTER
SCALED-DOWN IMAGE POINTER
DETAILED INFORMATION DISPLAY
SCALED-DOWN IMAGE DISPLAY
IDENTIFICATION NUMBER
COMBINED DISPLAY SETTING
A
Yes or Gray out
Yes or No
* * *
Yes or No

FIG. 24(a)

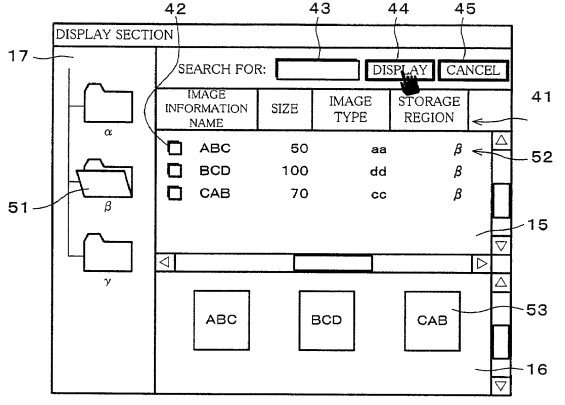


FIG. 24(b)

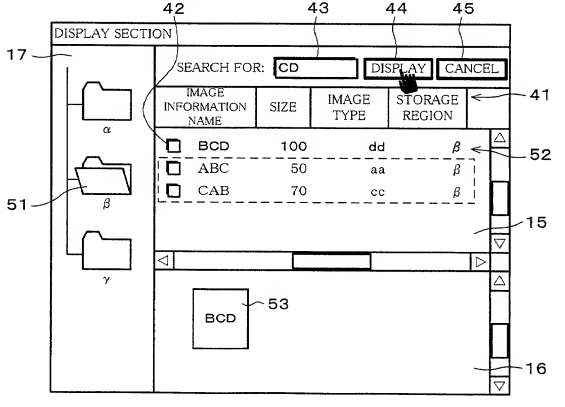


FIG. 25

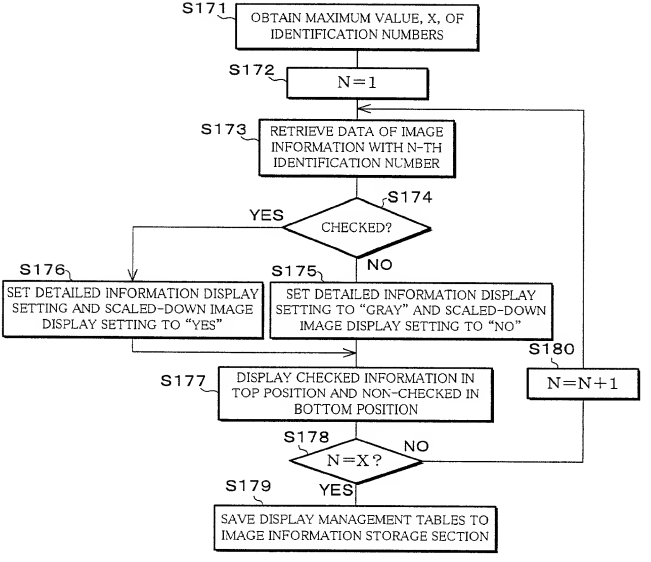

S171
OBTAIN MAXIMUM VALUE, X, OF IDENTIFICATION NUMBERS
S172
N=1
S173
RETRIEVE DATA OF IMAGE INFORMATION WITH N-TH IDENTIFICATION NUMBER
S174
CHECKED?
YES
NO
S176
SET DETAILED INFORMATION DISPLAY SETTING AND SCALED-DOWN IMAGE DISPLAY SETTING TO "YES"
S175
SET DETAILED INFORMATION DISPLAY SETTING TO "GRAY" AND SCALED-DOWN IMAGE DISPLAY SETTING TO "NO"
S180
N=N+1
S177
DISPLAY CHECKED INFORMATION IN TOP POSITION AND NON-CHECKED IN BOTTOM POSITION
S178
N=X?
NO
YES
S179
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION

FIG. 26(a)

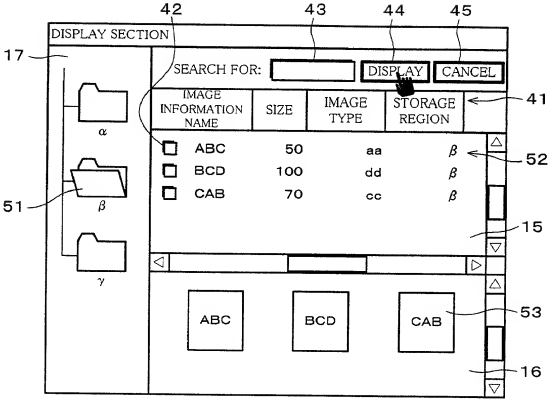


FIG. 26(b)

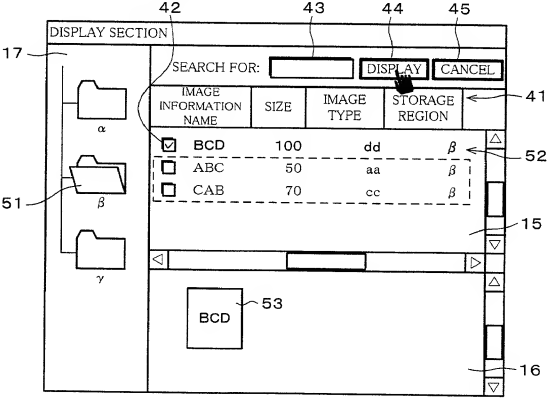


FIG. 27

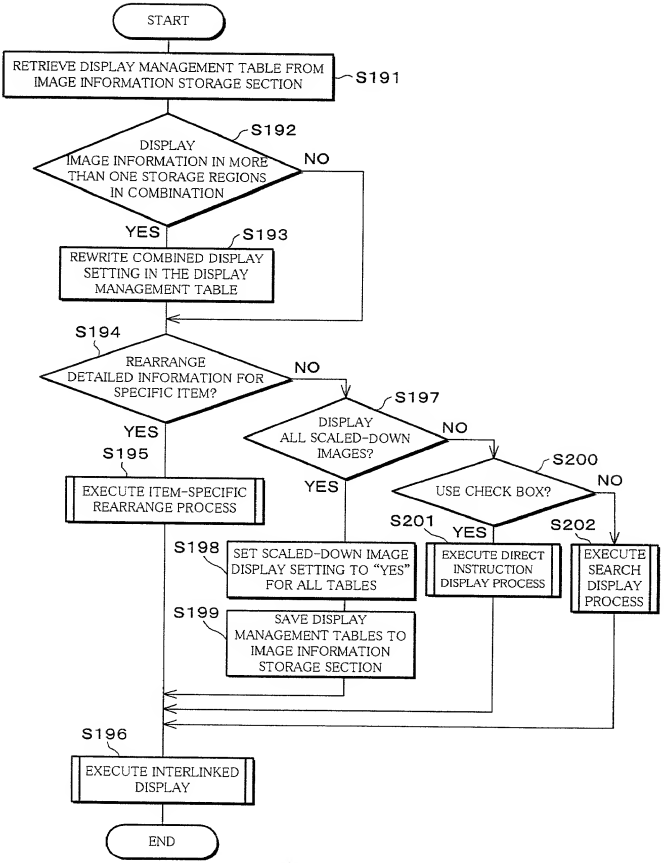

START
RETRIEVE DISPLAY MANAGEMENT TABLE FROM IMAGE INFORMATION STORAGE SECTION
S191
S192
DISPLAY IMAGE INFORMATION IN MORE THAN ONE STORAGE REGIONS IN COMBINATION
NO
YES
S193
REWRITE COMBINED DISPLAY SETTING IN THE DISPLAY MANAGEMENT TABLE
S194
REARRANGE DETAILED INFORMATION FOR SPECIFIC ITEM?
NO
YES
S195
EXECUTE ITEM-SPECIFIC REARRANGE PROCESS
S197
DISPLAY ALL SCALED-DOWN IMAGES?
NO
YES
S200
USE CHECK BOX?
NO
YES
S201
S202
S198
SET SCALED-DOWN IMAGE DISPLAY SETTING TO "YES" FOR ALL TABLES
EXECUTE DIRECT INSTRUCTION DISPLAY PROCESS
EXECUTE SEARCH DISPLAY PROCESS
S199
SAVE DISPLAY MANAGEMENT TABLES TO IMAGE INFORMATION STORAGE SECTION
S196
EXECUTE INTERLINKED DISPLAY
END

FIG. 28

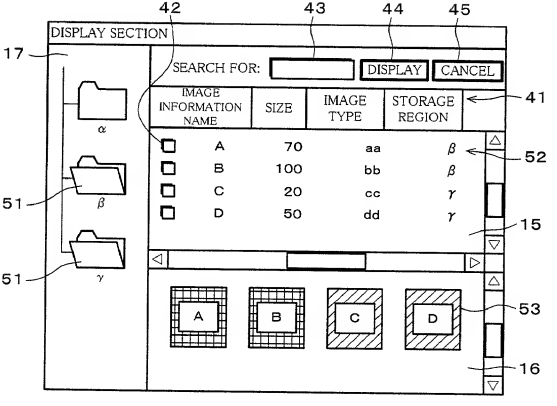

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
DISPLAY
CANCEL
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
41
α
β
γ
51
51
A 70 aa β
B 100 bb β
C 20 cc γ
D 50 dd γ
52
15
A
B
C
D
53
16

FIG. 29(a)

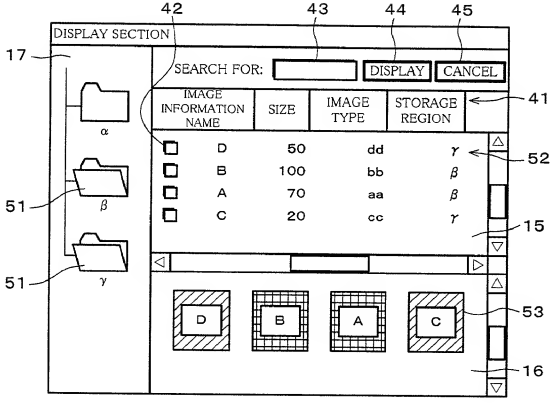


FIG. 29(b)

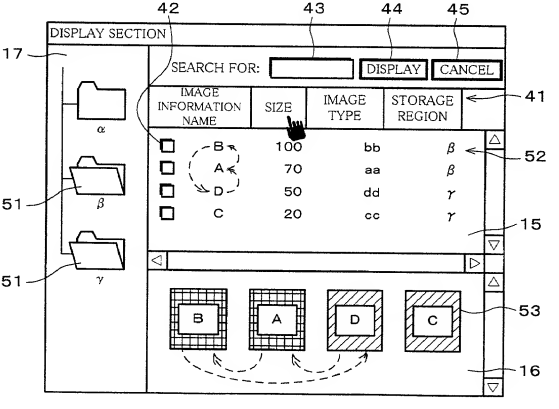


FIG. 30

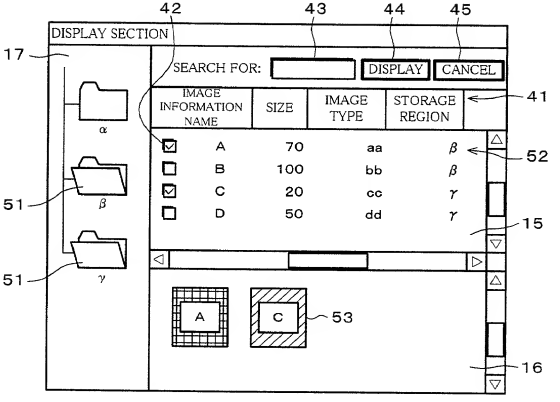

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
DISPLAY
CANCEL
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
41
α
β
γ
51
51
A 70 aa β
B 100 bb β
C 20 cc γ
D 50 dd γ
52
15
A
C
53
16

FIG. 31

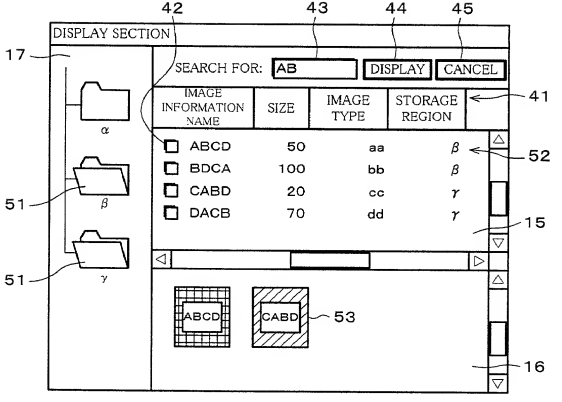

42
43
44
45
DISPLAY SECTION
17
SEARCH FOR:
AB
DISPLAY
CANCEL
IMAGE INFORMATION NAME
SIZE
IMAGE TYPE
STORAGE REGION
41
α
β
γ
ABCD 50 aa β
BDCA 100 bb β
CABD 20 cc γ
DACB 70 dd γ
52
51
51
15
ABCD
CABD
53
16

FIG. 32(a)

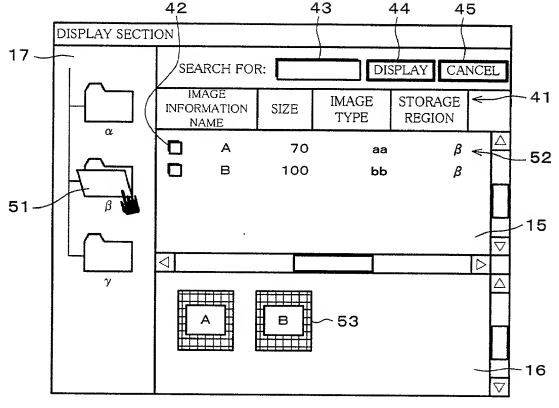


FIG. 32(b)

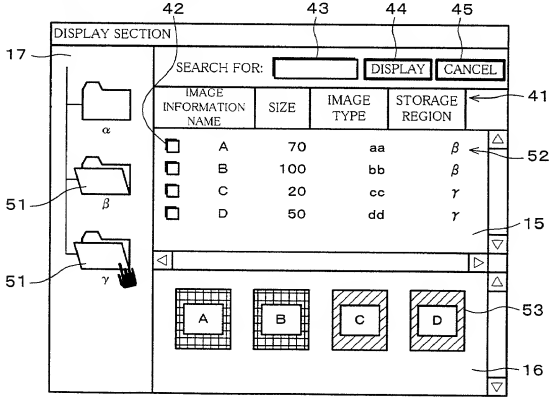


FIG. 33(a)

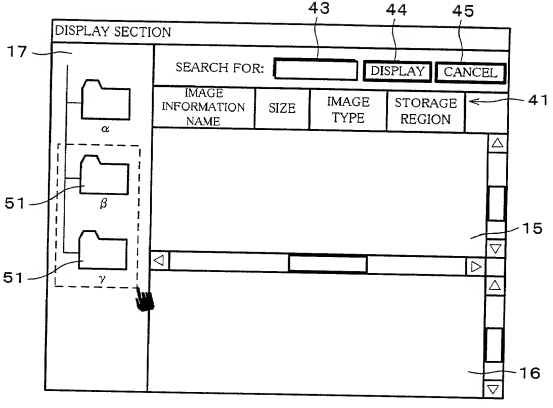


FIG. 33(b)

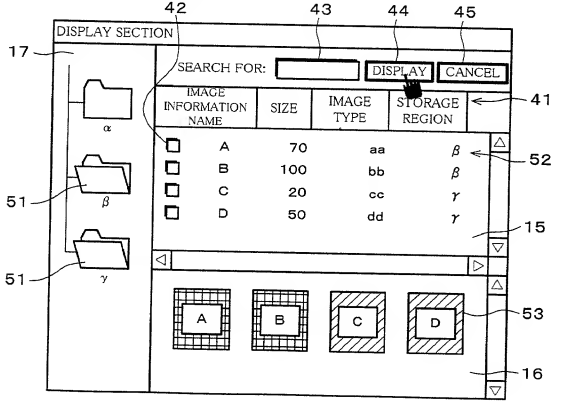


FIG. 34(a)

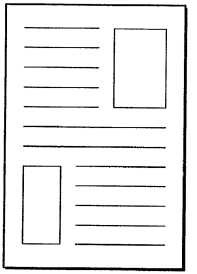


FIG. 34(b)

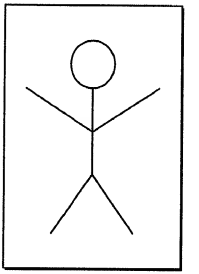


FIG. 34(c)

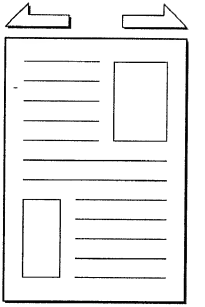
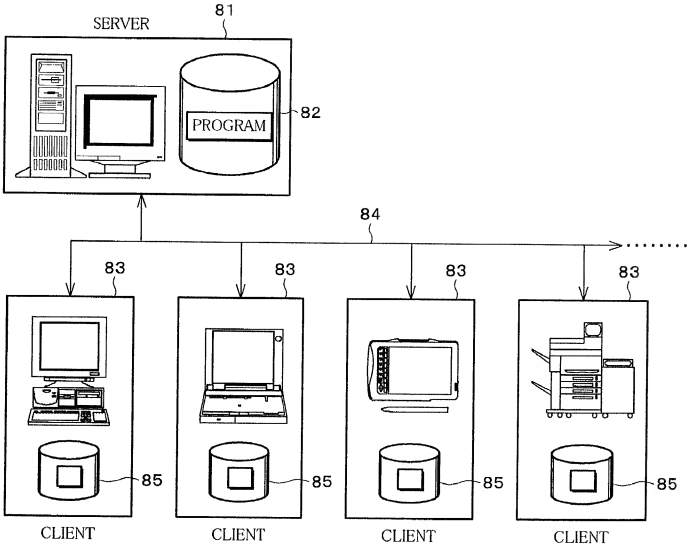


FIG. 35


SERVER
81
PROGRAM
82
84
83
83
83
83
85
85
85
85
CLIENT
CLIENT
CLIENT
CLIENT